

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

DS/#6
1/24/02

In re application of:

GLOTZER *et al.*

Appl. No. 09/881,736

Filed: June 18, 2001

For: **Cyk-4 Polypeptides, DNA Molecules
Encoding Them and Their use in
Screening Methods**

Confirmation No. 8755

Art Unit: 1653

Examiner: *To be assigned*

Atty. Docket: 0652.2260001/EKS/AES



Information Disclosure Statement

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Commissioner for Patents
Washington, D.C. 20231

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. A copy of each of these documents is provided.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith. It is further understood that the Examiner will consider information that had been cited or submitted to the U.S. Patent and Trademark Office in a prior application relied on under 35 U.S.C. § 120. 1138 OG 37, 38 (May 19, 1992).

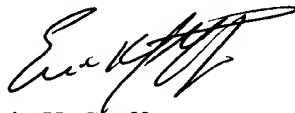
It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449 and indicate in the official file wrapper of this patent application that the documents have been considered.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036. A duplicate copy of this pleading is enclosed.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Eric K. Steffe
Attorney for Applicants
Registration No. 36,688

Date: 1/18/02

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JAN 18 2002

FORM PTO-144

INFORMATION DISCLOSURE STATEMENT

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>1</u>	Adams, R.R. et al., "pavarotti encodes a kinesin-like protein required to organize the central spindle and contractile ring for cytokinesis," <i>Genes Dev.</i> 12:1483-1494, Cold Spring Harbor Laboratory Press (1998).
AS	<u>1</u>	Aktories, K. and Hall, A., "Botulinum ADP-ribosyltransferase C ₃ : a new tool to study low molecular weight GTP-binding proteins," <i>Trends Pharmacol. Sci.</i> 10:415-418, Elsevier Science Publishers Ltd. (1989).
AT	<u>1</u>	Bosher, J.M. and Labouesse, M., "RNA interference: genetic wand and genetic watchdog," <i>Nat. Cell Biol.</i> 2:E31-E36, Macmillan Publishers, Ltd. (February 2000).

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	AR	<u>2</u>	Boulianne, G.L. et al., "Production of functional chimaeric mouse/human antibody," <i>Nature</i> 312:643-646, Macmillan Publishing Group, Ltd. (1984).
	AS	<u>2</u>	Busson, S. et al., "Dynein and dynactin are localized to astral microtubules and at cortical sites in mitotic epithelial cells," <i>Curr. Biol.</i> 8:541-544, Current Biology Ltd. (1998).
	AT	<u>2</u>	Cao, L.-g. and Wang, Y.-l., "Signals from the Spindle Midzone Are Required for the Stimulation of Cytokinesis in Cultured Epithelial Cells," <i>Mol. Biol. Cell</i> 7:225-232, The American Society for Cell Biology (1996).

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	AR	3	Carmena, M. et al., "Drosophila Polo Kinase Is Required for Cytokinesis," <i>J. Cell Biol.</i> 143:659-671, The Rockefeller University Press (1998).
	AS	3	Carminati, J.L. and Stearns, T., "Microtubules Orient the Mitotic Spindle in Yeast through Dynein-dependent Interactions with the Cell Cortex," <i>J. Cell Biol.</i> 138:629-641, The Rockefeller University Press (1997).
	AT	3	Case, R.B. et al., "Role of the kinesin neck linker and catalytic core in microtubule-based motility," <i>Curr. Biol.</i> 10:157-160, Elsevier Science Ltd. (January 2000).

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Castrillon, D.H. and Wasserman, S.A., "diaphanous is required for cytokinesis in *Drosophila* and shares domains of similarity with the products of the *limb deformity* gene," *Development* 120:3367-3377, The Company of Biologists Limited (1994).

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Chang, F. et al., "cdc12p, a Protein Required for Cytokinesis in Fission Yeast, Is a Component of the Cell Division Ring and Interacts with Profilin," *J. Cell Biol.* 137:169-182, The Rockefeller University Press (1997).

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Chui, K.K. et al., "Roles of Two Homotetrameric Kinesins in Sea Urchin Embryonic Cell Division," *J. Biol. Chem.* 275:38005-38011, The American Society for Biochemistry and Molecular Biology, Inc. (December 2000).

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AR	<u>5</u>	Drechsel, D.N. <i>et al.</i> , "A requirement for Rho and Cdc42 during cytokinesis in <i>Xenopus</i> embryos," <i>Curr. Biol.</i> 7:12-23, Current Biology Ltd. (1996).
AS	<u>5</u>	Dutartre, H. <i>et al.</i> , "Cytokinesis arrest and redistribution of actin-cytoskeleton regulatory components in cells expressing the Rho GTPase CDC42Hs," <i>J. Cell Sci.</i> 109:367-377, The Company of Biologists Limited (1996).
AT	<u>5</u>	Echard, A. <i>et al.</i> , "Interaction of a Golgi-Associated Kinesin-Like Protein with Rab6," <i>Science</i> 279:580-585, The American Association for the Advancement of Science (1998).

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	AS	<u>6</u>	Evangelista, M. et al., "Bnlp, a Yeast Formin Linking Cdc42p and the Actin Cytoskeleton During Polarized Morphogenesis," <i>Science</i> 276:118-122, The American Association for Advancement of Science (1997).
	AT	<u>6</u>	Field, C. et al., "Cytokinesis in eukaryotes: a mechanistic comparison," <i>Curr. Opin. Cell Biol.</i> 11:68-80, Elsevier Science Ltd. (February 1999).

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7Fire, A. et al., "Potent and specific genetic interference by double-stranded RNA in *Caenorhabditis elegans*," *Nature* 391:806-811, Macmillan Publishers, Ltd. (1998).

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7Fire, A., "RNA-triggered gene silencing," *Trends Genet.* 15:358-363, Elsevier Science Ltd. (September 1999).

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7Fontijn, R.D. et al., "The Human Kinesin-Like Protein RB6K Is under Tight Cell Cycle Control and Is Essential for Cytokinesis," *Mol. Cell. Biol.* 21:2944-2955, American Society for Microbiology (April 2001).

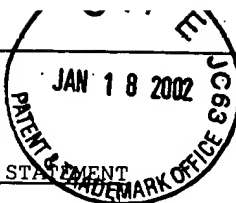
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	AR	8	Fujiwara, T. et al., "Bnlp Regulates Microtubule-Dependent Nuclear Migration through the Actin Cytoskeleton in <i>Saccharomyces cerevisiae</i> ," <i>Mol. Cell. Biol.</i> 19:8016-8027, American Society for Microbiology (December 1999).
	AS	8	Gentz, R. et al., "Bioassay for trans-activation using purified human immunodeficiency virus tat-encoded protein: Trans-activation requires mRNA synthesis," <i>Proc. Natl. Acad. Sci. USA</i> 86:821-824, The National Academy of Sciences (1989).
	AT	8	Giansanti, M.G. et al., "Cooperative interactions between the central spindle and the contractile ring during <i>Drosophila</i> cytokinesis," <i>Genes Dev.</i> 12:396-410, Cold Spring Harbor Laboratory Press (1998).

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AR	<u>9</u>	Glutzer, M., "Cytokinesis," <i>Curr. Biol.</i> 7:R274-R276, Current Biology Ltd. (1997).
AS	<u>9</u>	Glutzer, M., "The mechanism and control of cytokinesis," <i>Curr. Opin. Cell Biol.</i> 9:815-823, Current Opinion Ltd. (1997).
AT	<u>9</u>	Gönczy, P. et al., "Dissection of Cell Division Processes in the One Cell Stage <i>Caenorhabditis elegans</i> Embryo by Mutational Analysis," <i>J. Cell Biol.</i> 144:927-946, The Rockefeller University Press (March 1999).

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AR	<u>10</u>	Gönczy, P. et al., "Cytoplasmic Dynein is Required for Distinct Aspects of MTOC Positioning, Including Centrosome Separation, in the One Cell Stage <i>Caenorhabditis elegans</i> Embryo," <i>J. Cell Biol.</i> 147:135-150, The Rockefeller University Press (October 1999).
AS	<u>10</u>	Graziano, R.F. et al. "Construction and Characterization of a Humanized Anti-γ-Ig Receptor Type I (FcγRI) Monoclonal Antibody," <i>J. Immunol.</i> 155:4996-5002, The American Association of Immunologists (1995).
AT	<u>10</u>	Hazlett, T.L. et al., "Solution Dynamics of p21 ^{ras} Proteins Bound with Fluorescent Nucleotides: A Time-Resolved Fluorescence Study," <i>Biochemistry</i> 32:13575-13583, American Chemical Society (1993).

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Hill, E. et al., "The Rab6-binding kinesin, Rab6-KIFL, is required for cytokinesis," *EMBO J.* 19:5711-5719, European Molecular Biology Organization (November 2000).

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Hurley, J.H. and Meyer, T., "Subcellular targeting by membrane lipids," *Curr. Opin. Cell Biol.* 13:146-152, Elsevier Science Ltd. (April 2001).

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AR	12	Hyman, A.A., "Centrosome Movement in the Early Divisions of <i>Caenorhabditis elegans</i> : A Cortical Site Determining Centrosome Position," <i>J. Cell Biol.</i> 109:1185-1193, The Rockefeller University Press (1989).
AS	12	Hyman, A.A. and White, J.G., "Determination of Cell Division Axes in the Early Embryogenesis of <i>Caenorhabditis elegans</i> ," <i>J. Cell Biol.</i> 105:2123-2135, The Rockefeller University Press (1987).
AT	12	Imamura, H. et al., "Bnlp and Bnrlp: downstream targets of the Rho family small G-proteins which interact with profilin and regulate actin cytoskeleton in <i>Saccharomyces cerevisiae</i> ," <i>EMBO J.</i> 16:2745-2755, Oxford University Press (1997).

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	AR	<u>13</u>	Jantsch-Plunger, V. and Glotzer, M., "Depletion of syntaxins in the early <i>Caenorhabditis elegans</i> embryo reveals a role for membrane fusion events in cytokinesis," <i>Curr. Biol.</i> 9:738-745, Current Biology Ltd. (June 1999).
	AS	<u>13</u>	Jantsch-Plunger, V. <i>et al.</i> , "CYK-4: A Rho Family GTPase Activating Protein (GAP) Required for Central Spindle Formation and Cytokinesis," <i>J. Cell Biol.</i> 149:1391-1404, The Rockefeller University Press (June 2000).
	AT	<u>13</u>	Kaitna, S. <i>et al.</i> , "Incenp and an Aurora-like kinase form a complex essential for chromosome segregation and efficient completion of cytokinesis," <i>Curr. Biol.</i> 10:1172-1181, Elsevier Science Ltd. (September 2000).

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INFORMATION DISCLOSURE STATEMENT


 ATTY. DOCKET NO.
0652.2260001/EKS/AES

 APPLICATION NO.
09/881,736

 APPLICANT
GLOTZER *et al.*

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	AL						Yes No
	AM						Yes No
	AN						Yes No
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AR	<u>14</u>	Kishi, K. <i>et al.</i> , "Regulation of Cytoplasmic Division of <i>Xenopus</i> Embryo by <i>rho</i> p21 and Its Inhibitory GDP/GTP Exchange Protein (<i>rho</i> GDI)," <i>J. Cell Biol.</i> 120:1187-1195, The Rockefeller University Press (1993).
AS	<u>14</u>	Kosako, H. <i>et al.</i> , "Specific accumulation of Rho-associated kinase at the cleavage furrow during cytokinesis: cleavage furrow-specific phosphorylation of intermediate filaments," <i>Oncogene</i> 18:2783-2788, Stockton Press (April 1999).
AT	<u>14</u>	Kull, F.J. <i>et al.</i> , "Crystal structure of the kinesin motor domain reveals a structural similarity to myosin," <i>Nature</i> 380:550-555, Macmillan Publishers Ltd. (1996).

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	AR	<u>15</u>	Kuriyama, R. et al., "Heterogeneity and microtubule interaction of the CHO1 antigen, a mitosis-specific kinesin-like protein. Analysis of subdomains expressed in insect sf9 cells," <i>J. Cell Sci.</i> 107:3485-3499, The Company of Biologists Limited (1994).
	AS	<u>15</u>	Lamarche, N. and Hall, A., "GAPs for rho-related GTPases," <i>Trends Genet.</i> 10:436-440, Elsevier Science Ltd. (1994).
	AT	<u>15</u>	Larkin, K. and Danilchik, M.V., "Microtubules Are Required for Completion of Cytokinesis in Sea Urchin Eggs," <i>Dev. Biol.</i> 214:215-226, Academic Press (October 1999).

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	AR	<u>16</u>	Lee, K.S. <i>et al.</i> , "Plk Is an M-Phase-Specific Protein Kinase and Interacts with a Kinesin-Like Protein, CHO1/MKLP-1," <i>Mol. Cell. Biol.</i> 15:7143-7151, American Society for Microbiology (1995).
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	AT	<u>16</u>	Mabuchi, I. <i>et al.</i> , "A rho-like protein is involved in the organisation of the contractile ring in dividing sand dollar eggs," <i>Zygote</i> 1:325-331, Cambridge University Press (1993).

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	AR	<u>17</u>	Mackay, A.M. et al., "A Dominant Mutant of Inner Centromere Protein (INCENP), a Chromosomal Protein, Disrupts Prometaphase Congression and Cytokinesis," <i>J. Cell Biol.</i> 140:991-1002, The Rockefeller University Press (1998).
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	AT	<u>17</u>	Mastronarde, D.N. et al., "Interpolar Spindle Microtubules in PTK Cells," <i>J. Cell Biol.</i> 123:1475-1489, The Rockefeller University Press (1993).

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FORM PTO-144

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AR	<u>19</u>	Neuberger, M.S. et al., "Recombinant antibodies possessing novel effector functions," <i>Nature</i> 312:604-608, Macmillan Publishers Ltd. (1984).
AS	<u>19</u>	Nislow, C. et al., "A plus-end-directed motor enzyme that moves antiparallel microtubules in vitro localizes to the interzone of mitotic spindles," <i>Nature</i> 359:543-547, Macmillan Publishers Ltd. (1992).
AT	<u>19</u>	O'Connell, K.F. et al., "A Genetic Screen for Temperature-Sensitive Cell-Division Mutants of <i>Caenorhabditis elegans</i> ," <i>Genetics</i> 149:1303-1321 (1998).

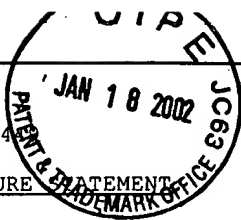
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FORM PTO-14

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	AM						Yes No
	AN						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	20	O'Connell, C.B. <i>et al.</i> , "The Small GTP-binding Protein Rho Regulates Cortical Activities in Cultured Cells during Division," <i>J. Cell Biol.</i> 144:305-313, The Rockefeller University Press (January 1999).
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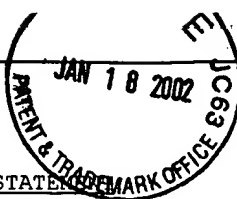
AR	<u>21</u>	Prokopenko, S.N. <i>et al.</i> , "A putative exchange factor for Rho1 GTPase is required for initiation of cytokinesis in <i>Drosophila</i> ," <i>Genes Dev.</i> 13:2301-2314, Cold Spring Harbor Laboratory Press (September 1999).
AS	<u>21</u>	Raich, W.B. <i>et al.</i> , "Cytokinesis and Midzone Microtubule Organization in <i>Caenorhabditis elegans</i> Require the Kinesin-like Protein ZEN-4," <i>Mol. Biol. Cell</i> 9:2037-2049, The American Society for Cell Biology (1998).
AT	<u>21</u>	Rappaport, R., "Repeated Furrow Formation From a Single Mitotic Apparatus in Cylindrical Sand Dollar Eggs," <i>J. Exp. Zool.</i> 234:167-171, Alan R. Liss, Inc. (1985).

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	AR	<u>22</u>	Reddien, P. and Horvitz, H.R., "CED-2/CrkII and CED-10/Rac control phagocytosis and cell migration in <i>Caenorhabditis elegans</i> ," <i>Nat. Cell Biol.</i> 2:131-136, Macmillan Publishers Inc. (March 2000).
	AS	<u>22</u>	Rice, S. et al., "A structural change in the kinesin motor protein that drives motility," <i>Nature</i> 402:778-784, Macmillan Publishers Inc. (December 1999).
	AT	<u>22</u>	Riechmann, L. et al., "Reshaping human antibodies for therapy," <i>Nature</i> 332:323-327, Macmillan Publishers Inc. (1988).

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	AT	<u>24</u>	Settleman, J. and Foster, R., "Purification and GTPase-Activating Protein Activity of Baculovirus Expressed p190," <i>Methods Enzymol.</i> 256:105-113, Academic Press, Inc. (1995).

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AR	<u>25</u>	Severson, A.F. <i>et al.</i> , "The Aurora-related kinase AIR-2 recruits ZEN-4/CeMKLP1 to the mitotic spindle at metaphase and is required for cytokinesis," <i>Curr. Biol.</i> 10:1162-1171, Current Biology Ltd. (September 2000).
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AR	<u>26</u>	Skop, A.R. and White, J.G., "The dynactin complex is required for cleavage plane specification in early <i>Caenorhabditis elegans</i> embryos," <i>Curr. Biol.</i> 8:1110-1116, Current Biology Ltd. (1998).
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AT	<u>26</u>	Sulston, J.E. and Horvitz, H.R., "Post-embryonic Cell Lineages of the Nematode, <i>Caenorhabditis elegans</i> ," <i>Dev. Biol.</i> 56:110-156, Academic Press, Inc. (1977).

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09/881,736APPLICANT
GLOTZER *et al.*FILING DATE
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